

GIVAUDAN-ROURE LAGOON CLOSURE PLAN NJPDES PERMIT NO. NJ088374

April 23, 1996

Issued May 1, 1996

PREPARED FOR

GIVAUDAN-ROURE CORPORATION CLIFTON, NEW JERSEY

PREPARED BY

CREST ENGINEERING ASSOCIATES, INC. HIGHTSTOWN, NEW JERSEY

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1.0 Introduction

The Clifton Facility of Givaudan-Roure Corporation is located at 125 Delawanna Avenue in the City of Clifton, Passaic County, New Jersey. The facility includes the Fragrance Specialty Divison (plant south of Delawanna Avenue). This Plan of Closure concerns the Fragrance Specialty Divison site only. The Fragrance Specialty Divison is bounded by a New Jersey Transit/Conrail railroad on the west, River Road on the south, a residential area on the southeast, and Delawanna Avenue on the northeast.

The Clifton Facility is a manufacturing facility producing aroma and specialty chemicals. Attendant support activities include quality control, engineering, warehousing, maintenance and utility services, wastewater pretreatment, and employee services.

The facility consists of multiple buildings separated by paved roadways, sidewalks, and parking lots. The facility is served by stormwater, sanitary, and wastewater/sanitary sewer systems and potable water systems.

Stormwater sewer inlets are located throughout the facility. The stormwater sewers and overland flow discharge to the Clifton stormwater sewer at Delawanna Avenue, a stormwater collection lagoon, the swale beside the railroad, River Road at the Railroad crossing and an inlet at River Road that all discharge through the City of Clifton storm sewer system and, ultimately, into the Passaic River.

Givaudan-Roure has Discharge to Groundwater NJPDES permit number NJ088374 for the referenced existing stormwater collection lagoon located in the west-central portion of the site and situated south of Delawanna Avenue. In accordance with Part II-DGW-I of permit number NJ088743, Givaudan-Roure is required to submit a closure plan to NJDEP 180 days prior to expected closure of the lagoon.

This proposal consists of closing the existing lagoon and directing the stormwater to it's current destination at the southern portion of the facility through a proposed on-site storm sewer system.

2.0 Reasons for Lagoon Closure

Givaudan-Roure plans to close the lagoon to open up additional real estate for use. Givaudan-Roure is currently in the process of developing a capital improvements program. The program includes demolishing some of the older existing buildings and constructing new buildings. Closing of the lagoon provides added flexibility for configuration of buildings, parking areas and access roadways.

Currently, the lagoon does capture stormwater runoff from small events. However, it does not have the capacity to retain the

stormwater runoff from a 25 year storm, the design storm required by the City of Clifton. During such a storm, the pond will overtop. The overtopping stormwater will flow to the south and outfall on River Road. Therefore, closure of the pond will not significantly affect the flow patterns of the site.

3.0 Future Use of Area Occupied by Lagoon

As stated in Section 2.0, Givaudan-Roure is planning a capital improvements program. The actual configuration of the proposed buildings, parking and access roads have not been finalized. It is anticipated that a portion of a building, parking area, roadway or lawn will be located at the current lagoon location.

4.0 Volume of Sludge in Lagoon

Since only stormwater has been directed to this lagoon for at least the last 20 years, it is expected that no sludge exists in the pond. Sampling in accordance with the NJPDES Permit has not revealed any deviations from acceptable levels of all constituents.

Any sediments found in the lagoon are expected to consist of grit and soil transported by the stormwater runoff from the parking and the grassed areas within the drainage area. Soils logs in other areas of the site indicate that the soil is a loamy sand.

The actual components of the soil at the bottom of the pond will not be known until such time as the water surface is lowered. Once the surface water level has been reduced, the character of the sediments can be determined by visual inspection. If the sediment appears to contain too much organic content to be stable under the loading of the proposed back fill, the sediment will be excavated and disposed either on-site or off-site in a manner appropriate to its character and in accordance with all applicable regulations. An estimate of sediment will be prepared during sediment evaluation.

At this time, it is not anticipated that off-site disposal will be necessary.

5.0 Fill Material

The fill material shall approximate the characteristics of the soil present on-site. The soil profile shall consist of a mixure of red/brown medium and coarse to very coarse silty sand. See attached drilling logs for two logs within the vicinity of the lagoon.

6.0 Plot Plan

Attached, please see "Lagoon Closure Site Plan", dated April 22, 1996. Indicated on this plan are: Note that the lagoon closure is a part of a larger project. Only those improvements directly

related to lagoon closure are indicated.

- Existing storm sewer piping to be abandoned, (as relevant to the project).
- 2. Existing storm sewer piping to remain, (as relevant to the project).
- 3. Proposed on-site storm sewer to be constructed to collect and convey the stormwater runoff now directed toward the lagoon.
- 4. Proposed final grades of the lagoon after back filling.

7.0 Sedimentation and Erosion Control Plans

A Sedimentation and Erosion Control Plan shall be prepared during the construction plan preparation phase. These plans shall be prepared in accordance with Standards for Soil Erosion and Sediment Control in New Jersey, April 1986. Since the lagoon closure is a part of a larger project and surface area to be disturbed will greater than 5,000 square feet, the soil erosion and sediment control plans for the entire project will be submitted to the Hudson-Essex-Passaic Soil Conservation District in Verona, New Jersey, for certification.

The attached Lagoon Closure Plan includes a detail sheet for lagoon closure specific soil erosion and sediment control details.

8.0 Schedule of Events

	S	chedule of	closure activities
	Start Date	Duration	Activity
1	May 1, 1996	3 months	Submit closure plan to NJDEP for approval ¹
2	August 1, 1996	1 month	Incorporate into construction documents,
3	September 1, 1996	5 months	Obtain City of Clifton, Passaic County, Essex-Hudson-Passaic Soil Conservation District approvals
4	February 1, 1997	1 month	Bid project
5	March 1, 1997	1 month	Mobilization
6	April 1, 1997	2 months	Install proposed stormwater system (including connections of existing system to divert flow from lagoon outfalls)ending sampling requirements
7	June 1, 1997	1 week	Pump remaining stormwater out of lagoon and into stormwater system
8	June 8, 1997	2 weeks	Determine structural suitability of soil at bottom of lagoon
9	June 22, 1997	2 week	Excavate any soils not structurally unsuitable
10	July 8, 1997	1 week	Back fill lagoon area with soil representative of area and structurally suitable, topsoil and seed or construct structure to be located on this area

The approval process timing is critical. The current permit expires in June of 1997 and a request for renewal is due by January of 1997. Therefore, to ensure that request for renew is not required, construction must be started by April 1997. Closure approval must be obtained with enough lead time to conduct all required activities prior to beginning construction.

Environ	nmento	al Resou	rces Ma	ng ve	nt			Drilling Log
Project_	Giva	udan			.Owner	Givaudan Corp	oration	Sketch Mep
		ton, N	J		W.O. Nu	mber223-07	7-01-01	*
						Diameter		
						24-hrs		
						Siot Size		
Casing:	Dia	Hard	in-Hub	er Inc.		Type	Rotary	Notes
Drilling	Compan Nate I	aZaro	1.00	R.Ca	rper/C	.Pidge Date Drill	5/5/88	
Dopth (feet)	Graphio Log	Well Construction	Semple Number		2			ici Classification Trace=1-10%
2	8	\$8	82	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	8 E S			Same=10-20%
						0-6.2'	10R 3/4, Da	rk red coarse to very
[1]	f 1						coarse suba	ngular silty sand with
[2]	[]						trace rock	fragments and cobbles
[3]	1						with angula	r pebbles and trace mica
[4]	Γ 1			-				
5	1		1	2,3	3.0			
6	1			5,6		6.2-	5YR 4/6, Ye	llowish red coarse to very
77	1					11.5'	coarse poor	ly sorted silty sand with
8	1						trace heavy	minerals and angular
191	1						quartzose r	ock fragments
10	1		2	3,4	2.4			
1111	1		1	5,6				
12	1					11.5-	7.5YR 4/6,	Strong brown medium silty
13	1					21.8'	sand	
14	1							
15	- 1		3	3,6	0.2			
16				10,8				
17								·
18								
19		11						
20			4	6,6	0			
21			[]	8,9		21.8-	7.5YR 4/4,	Dark brown fine to
22			5	2,3	0.2	23.2	medium silt	y sand, wet
23	1			3,8		23.2-	10YR 3/3, 1	Dark brown fine silty sand
24			6	3,8	1.0	26.0	with occasi	ional rock fragments, wet
25				10,12				-
26								

Description Sketch Map Sk	Enviro	nment	ai Resou	rces Ma	n ne	nt		_	Drilling Log
West Number Object Objec	Omiect					Owner			sketch Map
Notes Number OD, 105, 105A Total Depth Deameter Store Elevation Water Level: Initial 24-hrs Store Store Casing: Oia Length Type Notes								1	
Surface Elevation								1	
Screen: Dia					-			1	
Drilling Company	_							- 1	
Description/Gold Classification Color, Texture. Southwes								1	
Date Drilled Description/Roll Classification (Color, Texture, Southern) Description/Roll Classification (Color, Texture, Southern) Color, Texture, Southern) Description/Roll Classification (Color, Texture, Southern) Color, Texture, Southern) Description/Roll Classification (Color, Texture, Southern) Description/Roll Classification (Color, Texture, Southern) Color, Texture, Southern) Description/Roll Classification (Color, Texture, Southern) Description (Color, Texture, Southern) Descr	_							110	lotes
The control of the	_		^դ y					1	
27			F	<u></u>	Ву		Date Drill	edL	
28	Depth (feet	Graphic Lo	Well Constructo	Sample Nearber	Blow	OWA Reading (ppm)	·		
28	27			7	10,11	0.6	26-28	10YR 4/3, Br	own clayey silt marbled
plasticity, moist 28-37' 10R 3/4, Dusky red clayey silt with very fine sand, good plasticity, moist 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	Г٦				10,9			with black s	ilt lenses, good
28-37' 10R 3/4, Dusky red clayey silt with very fine sand, good plasticity, moist 8 8,17 0.4 15,15 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 50 5R 4/3 Weak red, silty sand with trace clay, wet 9 10,12 0.5 20,16 48 49 50 50 51 10 25,4' 0.8 50-59' 10R 5/3 Weak red, silty sand with	r 7							plasticity,	moist
31 32 33 34 35 36 37 3.4 15,15 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 45 50 50 51 10 25,4' 0.8 50-59' 10R 5/3 Weak red, silty sand with the silty sand with silty sand	T 7	•					28-37'	-	
32 33 34 35 36 37 3.4 15,15 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 47 48 49 50 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	- 1				,			very fine sa	nd, good plasticity,
33 34 35 36 37 38 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 47 48 49 50 51 10 25.47 0.8 50-59' 10R 5/3 Weak red, silty sand with 50 51 50 50 50 50 50 50	- -	-				·		-	
34 35 36 37 37 38 37 44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 9 10,12 0.5 20,16 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	H 1	† -							
35 36 37 37 38 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 47 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with trace clay, wet	h 1	-							
8 8,17 0.4 15,15 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F 4	+							
37 38 39 39 40 41 42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F - 1	-		8	8.17	0.4			
38 39 37-44' 2.5YR 3/2 Dusky red silty clay with silt lenses, moist 40 41 42 43 44 45 46 9 10,12 0.5 20,10 0.5 20,10 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F 1	-				1 51			
39 40 41 42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F 1	r -					37-44'	2.5YR 3/2 Du	sky red silty clay with
40 41 42 43 44 45 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with		-							
41 42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	h 1	-	11 1				•	3110 10.2007	
42 43 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F 1	- -					i L		
43 44 45 44 45 44 45 44 45 46 47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	-	F -	1						
44 45 46 47 48 49 50 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	F 7	-							
45 9 10,12 0.5 44-50' 5R 4/3 Weak red, silty sand with trace clay, wet 20,16 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	T 7	-							
46 9 10,12 0.5 trace clay, wet 20,16 47 48 49 50 50 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	h 1		1113				44-501	50 4/3 Wesk	red. cilty cand with
47 48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with					10.1	0.5	41 30	•	_
48 49 50 51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	P 1	╟						crace cray,	
49 50 50 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with	P 7	╟ -			20,1				
50 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with		l - -							
51 10 25,47 0.8 50-59' 10R 5/3 Weak red, silty sand with		╠ -	1						
	P 4	╟╶	#	,,	25 4		En_En!	100 E/2 Wash	r wad allew sand with
40,5 trace clay, not plastic, wet	- 1	l - -	{	TO		11 11	-		-
	- 52	╟	{		40,5		29	trace clay,	not plastic, wet
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Enviro	nmente	ai Resou	rces Ma	חסייים	nt -			Drilling Log
Project	•				.Owner			Sketch Map
-						mber	ł	,
	•					Diameter.	•	
						24-hrs	t	
						Slot Size		
Casing:	Dia.		Ler	ngth		Туре		
Drilling	Compan	ту			_Drilling	Method		Notes
Driller_			Lo	д Ву		Date Orill	ed	
Depth (feet)	Graphic Log	Well Construction	Sample Number	Blow	OVA Reading (ppm)		Description/Sc	oil Classification ire, Structures)
53								
[54]								
[55]								
56			11	27 ,30	No			
57	L			41,,38	Reco	ery		
58			12	15,14	1.0			
_59				16,20				
60						59-65.8'		ark brown wilty fine sand
F61 -	-						with trace	clay, semi-plastic, dense.
62	-							
63							•	
64								
65	╟ -						100 6 60 11	
_ 66	╟ -		13	17,1	3.0	65.8-71.6		ak red silty fine sand
67	{ }-			14,1			with trace	clay, dense.
68 69	l l -							
70	╟ -							
71	 		14	17,1	5. 0			
72	╟╶			45,4	,	71.6-76'	10YR 5/2, G	rayish brown silty fine
73	什一					761		race clay and grey
74	11							crumbly, dense.
75	11						•	
76	1E -	11	15	23,	5 16	þ		
77][]			28,	þ	76-791	10YR 4/3 Br	own fine silty sand with
78							some clay a	and some grey mottling,
	II ']]	ll I	[]			crumbly, de	ense.

Environ	menta	i Resou	rces Ma	واللف عال	mt			Orilling Log
Proi ect					.Owner			Sketch Map
•						nber		
Well Num	ber	LOD, 105	,105A	al Depth.		Diameter		
Surface E	levatio	١	Wa	iter Level:	Initial	24-hrs,	, ,	
Screen: ()ia		Ler	ngth		Slot Size_		
						Туре		
Drilling C	ompan	у			_Drilling !	Method		Notes
Driller			<u></u>	g By		Date Drille	ed	
Depth (feet)	Graphic Log	Well Construction	Semple Number	Blow, Count	OVA Reading (ppm)			Boil Classification Bure, Structures)
79						79-901	10YR 4/3 Br	own fine silty sand with
[80][some clay a	nd some grey mottling,
81			16	27,2	5.0		crumbly, de	nse
82	.]			23,2				
83				r				
84	.]					·		
as]	.]							
86	.]		17	25,3	1.5			
87	. 4			38,4	Š			
88	- 4							
89	- 4							
F90 1								
91	- 4		18	27,3	11 11	į		own fine silty sand with
92				38,4		i	_	blocky, crumbly, grey
93	{						mottling.	
94								
95							1017 4/0 0	
96			19	30,2	11 i	95-97'	•	ark greyish brown very fine
97				30,4				with trace clay, blocky,
98						·	crompth, dr	rey mottling.
100								
101			20	13,2		100-102	5YR 4/3 Red	dish brown fine silty sand
102			20	18,2	i	100-102		clay with stringers of
103								Cark grey plastic clay.
104								31 Farence deal
F 1	- 1							
	_		- 4	'		-		

Environmento	i Resou	rces Ma	no re	nt			Drilling Log
Secions				Owner			Sketch Map
-					mber		
					Diameter		
			•		24-hrs		
•					Slot Size		
			_		Type		
-					Method		Notes
Oriller	,		g By		Date Dril		
Depth (feet) Graphic Log	Wed Construction	Semple Number	Blow Count	OVA Reading (ppm)		Description/	Soil Classification dure, Structures)
105					105-115'	5YR 4/4 Re	ddish brown fine to medium
106		21	55,5	2 No		silty sand	, with trace clay, very
107			70,7	Rec	very	slighly pl	astic.
108							
109			,				
110							
111		22	44,4	1 1			
112			54,5	•			
F113F 4]			
114							
115			_				
116		23	25,3	7.0	115-117'		Dark red brown fine to
117			37,4			medium sil	ty sand, with trace clay.
118							
119							
120		24	19,	3.0	120-122'	SVD A/A De	ddish brown clayey silt,
122		24	30,	1 }	120-122	•	with grey mottling.
123			30,7	T 1		breacte) "	idi grey moccinig.
124							
125							
[126[]		25	25,	7 3.4	125-127	5YR 4/3 Re	ddish brown clayey silt,
[127[]			30,	5		slightly p	
[128[]						_	
129							
130							
1 IF 1			1]		*	

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Enviro	unento	i Resou	rces Ma	Uosalle	nt		Orilling Log
Project_					.Owner		Sketch Map
-						nber	
Weil Nur	mbel OD	,105,10	DSA Tot	al Depth_		Diameter	
Surface	Elevation	n	Wa	ter Level:	Initial	24-hrs	
Screen:	Dia		Ler	igth		Siot Size	
				-		Туре	
-						Method	Notes Cored from 154
Driller_			Lo	3 By		Date Drilled	l64 feet
Depth (feet)	Graphic Log	Well Construction	Sample Number	Blow Count	OVA Reading (ppm)		Description/Soil Classification (Color, Texture, Structures)
131			26	21,3	No		
[132]	$[\]$			36,4	Rec	very	
[133]	$[\]$						
134	L]						
135				,			
136			27	24,2	0.0	135-137' 5	YR 3/4 Dark reddish brown clayey
137				32,3	1	s	silt, slightly plastic, slight grey
138	1					m	ottling
139							
140							
141	}		28	33,3	1 1		
142	 			36,3	Rec	very	
143	┞╶┥			-			
144							
145 146	┡╶┥		29	24 3	2.0	145_1571 6	SYR 4/4 Reddish brown very fine silty
147			25	24,3 37,3	ţ "Y	j	sand, with grey clay mottles.
148				3,77			was gree can an access
149		1.28 May					
150							
151			30	30,	5	150-153'	SYR 4/4 Reddish brown very fine silty
152				36,	5		sand.
153						153-154'	Gravel/weatherd bedrock
154							•
155						154-156.3'	10R 3/3 Dusky Red medium grain silty
156						1	micaceous sandstone.

Envir	onme	ent	al I	Res	юw	rces	Mana	geme	ent, In	c. Well 14D			
WO No:	22317.	00.0	17			Date	Complete	d .	10 July 1	995			
Project	Givaud	lan				Own	er		Givauda	n-Roure Corporation			
Location	Clifton,	, N	0130	y			g Depth (172.0	Diameter 6 inches			
Lat							ce Elevat			feet msl			
Long.							Elevation	1	feet msi				
Screen		Hole				•	th (ft)		Diameter feet TOC				
Slot Size							Rized DTV	٧		Diameter			
Rise: Method	None	¥274	/A'r	Ham	mar	-	th (ft)		T.Brown				
Drilling C								i - Atlan		renton, N. Jersey			
	<u></u>						-						
Elevation (MSL)	Depth (feet BGS)	Well	Construction	Schematic	Spik-Spoon #	Recovery (inches)	Blows per 0.5 feet	OVA (ppm)	Sample (feet BGS)	Sample Description/Classification			
										Overburden lithology from 2-inch split-spoon samplers.			
	11									Steel surface casing (10-inch) to 30° bgs.			
	 								-	Steel casing (6-inch) to 147 bgs.			
	1									Steen Casting (0-High) to 147 bgs.			
 		113			1	10	29-19-	0	0.5-2	Red/brown cobbles, fine sand & gravel, dry.			
	+	111111			-		15			rioustonii vessios, inic valio a gravai, ary.			
	1				2	8	9-11-	0	2-4	Same as above.			
					٠	-	8-7			Other as above.			
 					3	14	7-8-	0	4-6	Count & all & achilles do			
	-					14			4-0	Gravel & silt & cobbles, damp.			
 	3	11/1/					11-9						
	-	1111			4	8	13-8-	0	6-8	Red/orown cobbles, fine to medium sand			
					<u> </u>	<u> </u>	11-5		-:-	and gravel, dry.			
-	 				5	6	6-2-	0	8-10	Same as above.			
	 				_	<u> </u>	3-5		40.50	20			
	10				6	4	3-4-	0	10-12	Same as above.			
	 						3-4-						
	-				7	12	4-6-	0	12-14	Same as above.			
					L_		8-7		ļ				
	4				8	12	12-10-	0	14-16	Red/brown cobbles and sandy silt, some low			
	15						8-3		<u> </u>	plasticity clay; damp to moist.			
<u> </u>					9	12	6-12-	0	16-18	Same as above.			
							9-10						
				11/11	10	12	4-5-	0	18-20	Same as above.			
							7-9						

Envir	onmo	ent	al l	Res	юw	ces	Mana	geme	ent, In	c. Well 14D			
WO No:	22317	00.0) 1			Date (Complete	ď	10 July 1	995			
Project	Givaux		<u> </u>			Owne	•	•		-Roure Corporation			
Location			Jersi	BV .	•		g Depth (ft)	172.0	Diameter 6 inches			
Lat.					•		ce Elevat	•		feet msi			
Long.					•		Elevation			feet msi			
Screen	Open	Hole			•	Leng			Diameter				
Slot Size					•	•	lized DTV	V		feet TOC			
Riser	None				•	Leng	th (ft)			Diameter			
Method	MudR	otan	//Air	Harr	mer	Orlile	r		T.Brown	Geologist Goncalves/Kimsey Location Sketch Map			
Orlling C	ompan	/	Aqu	iter (Orilling	2 & Te	sting Mic	- Atlan	nic, Inc. T	renton, N. Jersey			
						را الساس							
Elevation (MSL)	Depth (teet BGS)	Well	Construction	Schematic	Split-Spoon #	Recovery (Inches)	Blows per 0.5 feet	OVA (ppm)	Sample (feet BGS)	Sample Description/Classification			
	20				11	8	4-13-	0	20-22	Same as above (upper 4 "); medium-fine sand			
							19-9			& gravel (lower 4 "), red/brown color, dry.			
	1				12	12	14-10-	0	22-24	Red/brown fine sand & cobbles, little fines;			
	1						10-10	L		cobbles are semiconsolidated sandstone.			
 	1-				13	18	5-6-	0	24-26	Same as above (upper 6 "), tan/red fine			
 	25				<u> </u>		6-9			sand, wet to damp (lower 12 ").			
 					14	18	2-3-	a	26-28	Tan/red fine sand, wet to damp.			
	 	111				10		-	20-50	tarvies in a sails, wet to sairp.			
	 	111					8-10						
<u> </u>					15	20	6-7-	0	28-30	Same as above (upper 6"), tan/gray fine			
							8-8			sand (lower 4 ").			
	30				16	18	7-5-	O	30-32	Tan/gray fine sand, saturated (upper 6 7); gray to			
							5-6			black fine sand, strong sewer odor (lower 12 ").			
	1				17	24	6-7-	0	32-34	Fine silty sand, black/gray color, saturated,			
	1	111					10-12			very strong sewer odor.			
-	+	111											
	35				18	24	19-15-	0	35-37	Silty sand and silt, gray/black color,			
-	+=						15-22		33-07				
	╂	111				<u> </u>	13-66			very strong odor.			
ļ	+					<u> </u>			<u> </u>				
	 					<u> </u>							
L	40				19	24	12-19-	0	40-42	Same as above.			
							21-30						
	1				1				†				
	 												

NO No:	22217	· 00	01				Date (Completed	4	10 July 19	995
Project	Givau	_	_				Owne	•	•		-Roure Corporation
ocation				rsey	7		-	g Depth (1	t)	172.0	Diameter 6 inches
.at.								ce Elevat			feet mai
ong.							Riser	Elevation	1		feet msl
creen	Ореп	Ho	le				Lengt	th (ft)			Diameter
ikot Size							Stabi	lized DTV	1		feet TOC
liser	None						Lengt				Diameter
fethod	MudR	ota								T.Brown	Geologist Goncalvee/Kimsey Location Sketch Mag
Orilling C	ompan			quit	er C)rilling	& Te	sting Mic	- Atlan	tic, Inc. T	renton, N. Jersey
Elevation (MSL)	Depth (feet BGS)		u cito	CHOIL	tíc.	# uoo	Recovery (inches)	Blows per 0.5 feet	pm)	Sample (feet BGS)	Sample Description/Classification
Elevatio		Mode		Construction	Schematic	Spiil-Spoon #	Rесоvе	Blows p	OVA (ppm)	Ѕатріе	
	45				1111	20	24	3-4-	0	45-47	Silty sand and silt, gray/black color,
		1111						5-13			very strong odor.
		11:11									
	1									1	1
	 	11/1								1	
	50					21	20	2-5-	0	50-52	Same as above.
	+	111						9-15		1	
	 	1111								 	
	+	11:11	l							 	
	┼									 	
		1111									
	55					22	18	0-0-	0_	55-57	Same as above.
								8-15			
			l								
								<u></u>			
		111									
	60					23	24	3-10-	0	60-62	Same as above (upper 12 "); red/brown clay & silt
	1							10-21		1	very high plasticity (lower 12"), saturated, strong odor.
	1	1111								1	
	+-					-	 	<u> </u>		 	
·	+	11/1			11111	-	-	 	 	 	
	6.5	1111			11.11	24	24	0-5-	0	65-67	Same as above, except plasticity changes from
	- 	1111	•			<u> </u>	-		├ -	03-01	
	 	111				}		6-10		 	high to low.
	1						<u> </u>		<u> </u>	1	
	i -	11,	B.			3	l	1	I	1	

1 No:	22317.	00.0	01			Date (Completed	1	10 July 19	95			
oject	Givauc					Own	•			Roure Corporation			
	Ciffon		Jerse	y			g Depth (1	t)	172.0	Diameter 6 inches			
L.							ce Elevati						
กg.						Riser	Elevation	}	feet_msi				
reen	Open l	Hole			_	Lengt	th (ft)			Diameter			
ot Size							ized DTV	,		_feet TOC			
30 7	None					Leng	•		T.Brown	Diameter			
ethod	-							Geologist Goncalves/Kimsey	Location Sketch Map				
iling C	ompany		Aqui	for [<u> Prilling</u>	g & Te	esting Mic	- Atlan	tic, Inc. 11	enton, N. Jersey			
	1					6	15		(5)				
Ü	38					2	٥		8				
Elevation (MSL)	Depth (feet BGS)		Ę	-	Split-Spoon #	Recovery (inches)	Blows per 0.5 feet	~	Sample (feet BGS)	Sample Description/	Classification		
<u> </u>	8		퓿	2	8	2	ğ	줐	E				
욡	=		灵	Ĕ	क्	2	g g	3	율				
Š	중	Well	Construction	Schematic	籄	8	<u>\$</u>	OVA (ppm)	E				
<u> </u>		23	O	S		,				Containing all and the second 6 att	\		
	70				25	24	1-5-	0	70-72	Red/brown clay with sand & sill	; low to nigh		
							6-7			plasticity.			
		1110											
		111											
	75				26	24	18-28-	0	75-77	Fine and medium red/brown/bla	ick sand with		
							52-85			trace silt, saturated to damp; sti	rong odor.		
	1												
	+								1				
	+				-				1				
	80	11111			27	12	92-	NA	80-82	Red/brown fine sandy silt, med/	high		
	 					-	100/4		} <u>†</u>	plasticity, no odor.			
	+				-		-		 				
	+				-	 	 		 				
·					 	┼──			 				
	+				1	 	54.00						
	85				28	18	34-65-	NA	85-87	Red/brown silty day and day; n	ned/low		
						<u> </u>	100/6*		1	plasiticity; no odor.			
	1				<u> </u>	<u> </u>		<u>.</u>					
						<u> </u>							
	<u> </u>	1111											
	90				29	18	24-36-	NA	90-92	Red/brown clay interbedded wit	th light gray		
	1						54-67		1-7	clay, no oder, moist (upper 14"); red/brown silty		
	1					†			1	sand (lower 4"), damp to satura			
	+					 	-	}	1				
				- 2	<u> </u>	<u> </u>	i	1) 1				

Envir	onme	ent	al l	Res	юw	rces	.Mana	geme	ent, Ind	•	Well 14D
WO No:	22317	.00.0	01			Date	Completed	d	10 July 19) 95	^
Project	Givaux				•	Owne	•			-Roure Corporation	•
Location			Jers	ey	•	Borin	ng Depth (1	n)	172.0	Diameter 6 inches	
Lat.					•		ce Elevat			feet msi	
Long.					1	Riser	r Elevation	1		teet msi	
Screen	Open	Hole)		•	Leng	pth (ft)			Diameter	
Slot Size					•	_	ilized DTV	٧.		feet TOC	
Riser	None				•	Leng	rth (ft)			Diameter	
	MudR	otan	y/Air	Hart	YMOT	•			T.Brown	Geologist Goncalves/Kimsey	Location Sketch Map
								1 - <u>Atla</u> n	tic, Inc. T	renton, N. Jersey	•
	•	·									
											,
Elevation (MSL)	Depth (feet BGS)	Well	Construction	Schematic	Split-Spoon #	Recovery (inches)	Blows per 0.5 leet	OVA (ppm)	Sample (feet BGS)	Sample Description/(Classification
	95				30	12	22-21-	4	95-97	Medium/fine red/brown sand, de	amp.
	+					 -	39-40	 	1		
	4							 -	{ }		
<u> </u>					<u>. </u>				↓		
l							l!	 			
	1										
	100				31	14	32-48-	NA	100-102	Same as above (upper 6 ");	
	+					<u> </u>	59-63	 	+	same as above with gravel (low	~ P @ v.~
	+				-	 		 	}	SCHIP SO PRAID HUI BIOCAL INC.	11 G }
	1				1		<u> </u>	 	L		
	<u></u>				<u></u>			<u> </u>	1		
	Τ.							Γ			
	105				32	12	NA	0	105-107	Brown clay, low plasticity, no oc	sor.
 	+-				1-	 	 	├ -~ —	+	A. A	
 	+				1			 	├ 		
ļ	4				!	↓	<u> </u>	 	↓		
	1				1	<u> </u>	<u></u> '				
<u> </u>	1				4	<u> </u>	o		<u> </u>		
	110				33	0	NA	NA	110-112	No recovery, may be large grav	rel.
	1				3				1		
	1				}	 	 	 -	 		
}	+				}	 	 	 			
	 				1-	├ ──	 	 	 		
	4					↓	لجيبا		 		
	115				34	14	NA	NA	115-120	Large gravel.	
	1	1111						<u> </u>			
-	1				1	\vdash	 	<u> </u>	 		
 	+				3	┼	 	 	+		
	+				3	┼	 		 		
1	120				S.	1	1	j	j		

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O No:	22317.00.01 Date Comp			Complete							
roject	Givaux					Owne				n-Roure Corporation	_
ocation	Clifton	, N.	jerse	ЭУ			g Depth (172.0	Diameter 6 inches	
at.							ce Elevai			feet msl	
ong.							Elevation	n		foet_msl	·
creen	Open	Hole)			Leng				Diameter	4
iot Size							lized DTV	N		feet TOC	
iser	None					Leng			T.Brown	Diameter Consolve Cimes	y Location Sketch Mac
	MudR		JAK	Ham	ITTO		T .adina 186	- AN		Geologist Goncalves/Kimse renton, N. Jersey	Z COCATION SKEICH MA
nung C	ompany		Aqu.	wer i	JI BHIT	7 2 10	Strid Min	9 - AUSII	100, 1100, 1	(Unition, N. Octoby	-
						(3	75		(<u>S</u>		
Ţ	Depth (feet BGS)					Recovery (inches)	Blows per 0.5 feet	l	Sample (feet BGS)		
Elevation (MSL)	8		۶		Split-Spoon #	3	0.5	2	5	Sample Description	vClassification
Ę	3		ই	몵	8	₹	X	8	5		
놽	اج		뙲	Ë	Ş	8	S	\ \d	충		
<u>\$</u>	8	Well	Construction	Schematic	품	8	Š	OVA (ppm)	ап		
ш	0	8	O		1	ш,	8		S		
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	130							<u> </u>			
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	135										
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	+					-		 	137	Bedrock	
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	145				3			1			
	+				1	 	 	 -	 	(Suinch steel casing to 147 h	no annidad in alass I

Envir	onme	ent	al 1	Res	юw	ces	Mana	geme	ent, Inc	•	Well 14D
WO No:		_)1				Complete	ď	10 July 19		
Project	Givaux				Owner					-Roure Corporation	
Location	ation Clifton, N. Jersey			Boring Depth (ft)				172.0	Diameter 6 inches	_	
Lat.							ice Elevat			feet msl	
Long.							r Elevation	n j		feet msl	
Screen	Open Hole				Length (ft)					Diameter	
Slot Size					Stabilized DTW					feet TOC	
Riser	None					Leng	th (ft)			Diameter	
Method	MudRe	otary	//Air	Harr	mer	Drille	H		T.Brown	Geologist Goncalves/Kims	ey Location Sketch Map
Drilling C	ompany		Aqu	der !	oilinc	g & To	sting Mk	d - Atlan	nic, Inc. T	renton, N. Jersey	_
(MSL)	HBGS)		uo.		* v	(inches)	0.5 feet	(E	eet BGS)	Sample Description	on/Classification
Elevation (MSL)	Depth (feet BGS)	Well	Construction	Schematic	Spiil-Spoon #	Recovery (inches)	Blows per 0.5 feet	OVA (ppm)	Sample (feet BGS)		
									147	Red sandstone	
									 		
	150									Fracture zone, about 60 gpr	n.
	·								\vdash		
				1						Red sandstone, dark gray s	hale, highly fractured
	155									Red sandstone, more comp	etent than above.
		11									
	160										
]								Red sandstone, drilling slow	er.
]									
]									
	1	1							\vdash		
	165										
	1	1					 		 		
		1		}			1				
		11							168-172	Red sandstone, fracture zor	·
	1	1							11		
	170	1									
	1	11				 	 	-	 		
	172	1 -	_			-		 	 	Bottom of borehole.	

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Revision 11/1/97

STATE OF NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION Division of Water Quality

NJ0088374

NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

Refer to Instructions on Page 6 and the Appropriate Completeness Checklist and Provide All Applicable Information. Please Print or Type. (Attach additional sheets if necessary)

Applicant(s)/Operating Enti	TICIES		
Name GIVAUDAN ROURE CORPORATION			
Mailing Address 155 PASSAIC AVENUE			
City or Town FAIRFIELD,	State	NJ	Zip Code <u>07004</u>
Federal Tax I.D.# 024230200	Teleph	one (97	73 ₎ 439–2123
Fax (973) 439-2237 E-Mail_gene	e.thomas@roche.c	com	
Parent Corporation & Place of Incorporation GIVAUDA	AN ROURE CORPORA	ATION,	NEW JERSEY
PROPERTY/LAND OWNER(S)			
Name SEE 1			
Mailing Address			
Cian as Tanna	State		7in Code .
City or Town			£,p codc
Federal Tax I.D.#	Teleph		
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA	Teleph		
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE	Teleph	one (
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON,	Telephoto Teleph	one (
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE	Telephoto Teleph	one (
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON,	Telephone Teleph	one (Zip Code07015 EPA I.D. #_NJD_002156345
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON, Municipality Count FACILITY CONTACT (Person Familiar)	Telephone Teleph	NJ	Zip Code07015 EPA I.D. # NJD 002156345 this Application)
Federal Tax I.D.# LOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON, Municipality Count FACILITY CONTACT (Person Familiar)	Telephone ATION State Outy PASSAIC with the Facility/Si	NJ	Zip Code07015 EPA I.D. # NJD 002156345 this Application)
ELOCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON, Municipality CONTACT (Person Familiar Name GENE THOMAS	Telephone ATION State Outy PASSAIC with the Facility/Si	NJ	Zip Code07015 EPA I.D. # NJD 002156345 this Application)
EDCATION OF FACILITY/SITE Name of Facility/Site GIVAUDAN ROURE CORPORA Street Address/Location 100 DELAWANNA AVENUE City or Town CLIFTON, Municipality CONTACT (Person Familiar Name GENE THOMAS Affiliation GIVAUDAN ROURE CORPORATION	Telephone ATION State Outy PASSAIC with the Facility/Si	NJ terand	Zip Code07015 EPA I.D. # NJD 002156345 this Application)

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5.	PROJECT and DISCHARGE DESCRIPTION (Under This Application)	
	TERMINATION OF EXISTING NJPDES PERMIT DUE TO PLANT CLOSURE. PERMIT ALLOWS	
	DISCHARGE TO GROUND WATER OF STORMWATER.	
		٠

REQUESTED NIPDES PERMIT ACTION AND OTHER NIPDES PERMITS

Under Table A, for each requested permit action under this application, list each discharge activity associated with this facility/site in the left column using the discharge activity category codes provided below (i.e., A, A8, CSO, etc.) and check the requested permit action (new, renewal, etc.). Under Table B, list currently held permits and/or pending applications for this facility/site. For existing permits, list permit number(s) and expiration date.

TABLE A: REQUESTED PERMIT ACTION UNDER THIS APPLICATION

DISCHARGE ACTIVITY (CATEGORY) CODES	PERMIT NUMBER	EXPIR. DATE	NEW	RENEW.	MOD:	REVOC.	REVOC. &
G W	088374	1/2002				X	
		!					

TABLE B: OTHER NJPDES PERMITS ASSOCIATED WITH THIS FACILITY

DISCHAR	SE ACTIVITY (CATEGORY) CODES	PERMIT NO.	EXP. DATE	PENDING	
	NONE				

Discharge Activity Categories (for completing the left columns in tables A and B above)

Discharge to Surface Water (DSW)

- A Domestic Surface Water Discharge
- A8 Discharge to Regional Outfall Auth
- CSO Combined Sewer Overflow
- B indus/Commercial/Thermal DSW
- B4B GP GW Petro Prod. Cleanup
- B5 GP Potable Water Treatment Plant
- CG GP Non-Contact Cooling Water

Discharge to Ground Water (DGW)

- GW Discharge to Ground Water
- T1 GP Sanitary Subsurface Disposal

- I1 GP Stormwater Basins/SLF
- I2 GP Potable WTP Basins/Drying Beds
- K1 GP Autodealers Carwash

Residuals and SIU Discharges

- L Discharge to POTW (SIU)
- D Land App. of Biosolids Class B
- V Land App. of Biosolids Class A
- E Land App. of Industrial Residuals
- EG Land App. Food Process. Residual GP

- Z Residuals Transfer Facilties
- 04 Residuals Reed Beds

Stormwater Discharges

RF Stormwater

Use the following for Table B only

- CPM GP Concrete Products Mat.
- SM GP Scrap Metal Proc/Auto Recycling
- 5G2 GP Stormwater Basic
- 5G3 GP Const. Activity Stormwater

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7. OTHER PERMITS

If any of the following applications have been submitted for this facility/site, complete the applicable information.

Permit Type	Application No. (if assigned)	Application Status				
	<u></u>	Approved Date	<u>Denied</u> Date	<u>Pending√</u>		
Treatment Works Approval (Municipal - Industrial)			is			
Exemption From Sewer Ban	n/A					
Water Quality Management Plan Amendment	N/A	· ·				
Potable Water Supply Well	N/A					
Hazardous Waste Management Program	N/A					
Prevention of Significant Deterioration (PSD)	N/A					
Nonattainment Program, Clean Air Act	N/A					
National Emission Standards - Hazardous Pollutants	N/A					
Ocean Dumping Permits (Marine Protection Act)	n/A					
Dredge/Fill Permits - Federal Act Section 404	N/A					
Relevant Environmental Permits - Including Federal, State, & Local Approvals - Specify:	NONE OTHER THAN	X				
	NJPDES PERMIT	7/1/92				

SIC Code #	(✓) if assigned by NJ Dept. of Labor	Products or Service Provided by Facility/Site
2 8 6 9		MANUFACTURE OF FLAVORS, FRAGRANCES & SPECIALTY PRODUCT
2 8 4 4		
2 0 8 7		

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9. WATER SUPPLY/DISC	HARGE INFO	RMATION			
RAW WATER SOURCES: Please c	heck ☑ all that ap	ply.			
☐ Public Water Supply: N☐ Private Wells☐ Surface Water: Name of			IC VALLEY	WATER	
A) Is this facility/site connected to If yes, list name, address, and			ewater tre	atment plant:	Yes 🛭 No 🗀
PASSAIC VALLEY SEWERAGE CO	OMMISSIONERS, 1	WILSON AVE,	NEWARK,	NJ 07105 -9	73-344-1800
B) Does this facility discharge to a lf yes, please check 回:	a storm drainage s iblic □ Private	ystem?			Yes 🛭 No 🗀
C) Does this facility discharge to	surface water?				Yes □ No 🛚
D) Does this facility discharge to	ground water?	4.			Yes ⊠ No □
10. LICENSED OPERATO		1000			
Name JOSEPH A. ZGURZYNSKI			_ N.J. Licen	se No. <u>N-3/00</u>	16896
Affiliation CONSULTANT TO GIVE		RPORATION			
Mailing Address 669 COUNTY RO	OAD 519				
City or Town FRENCHTOWN,		State	e <u>NJ</u>	_ Zip Code08	825
Telephone (908 996-4088	Fax (908 <u>_9</u>	96-3205		_ E-Mail <u>ZG@EP</u>	IX.NET
11. APPLICANT'S AGE The person listed below is authori	and the state of t	Programme Training *.	on all ma	atters pertaining	to this application
Name	· P	osition		·	
Company		· .			
Mailing Address			City		
State Zip Code		elephone ()		
Fax ()	E-Mail		-		
	•			A	and the second s
			inega Magalifik		
Signature of Agent	Date	Signature fo	or Applicant		Dat

12. PROPERTY OWNER'S CERTIFICATION (FOR DGW PERMITS ONLY)

I hereby certify that GIVAUDAN ROURE CORPORATION			
(Propowns the property identified in (d.) below. The owner grants this application and authorizes the Department to conduct of			rmitted under
In addition, I certify: (check "yes" or "no")		YES	NO
a. The activity will take place in an easement?			<u>X</u> .
b. Part of the entire project (e.g. pipeline, disposal area, wells, etc.) is or will be located within property owned by the State of New Jersey?		· · · · · · · · · · · · · · · · · · ·	<u>x</u>
c. Part of the entire project (e.g. pipeline, disposal area, wells, etc.) is or will be located within property owned by a municipality or county? (If "yes", contact the Acres Program at (609) 588-3461 for an applicability decrease.	ne Green	· .	<u>X</u>
d. LOT <u>22,29,30; 2,104</u>		· · · · · · · · · · · · · · · · · · ·	
BLOCK 60.14; 73.03			
Signature foldwher Date	Note: If "yes"	to stateme	ents a, b, or
DAVID B. JOHNSON, CSP Print or Type: Name VP, ENVIRONMENTAL, HEALTH & SAFETY AFFAIRS	c, the applica evidence of o from the othe (include copy	btaining per r property o	mission owners
Print or Type: Position 13. CERTIFICATION BY APPLICANT "I certify under penalty of law that this document and all supervision in accordance with a system designed to as evaluate the information submitted. Based on my inquiry of those persons directly responsible for gathering the information who wild and belief, true, accurate, and complete. I a submitting false information, including the possibility of recklessly, or negligently submitting false information."	sure that qualified pe the person or persons tion, the information su am aware that there	ersonnel prop s who manago ubmitted is, to are significa	erly gather and e the system, or o the best of my nt penalties for
	DAVID B. JOHNSON Print or Type: Name	/	/

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